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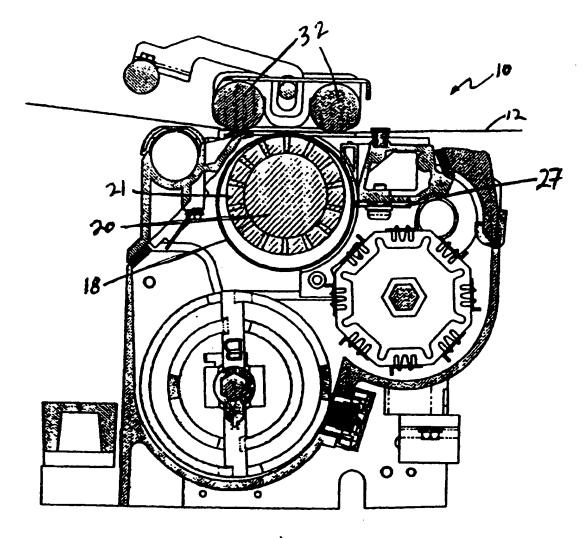


Fig. 1

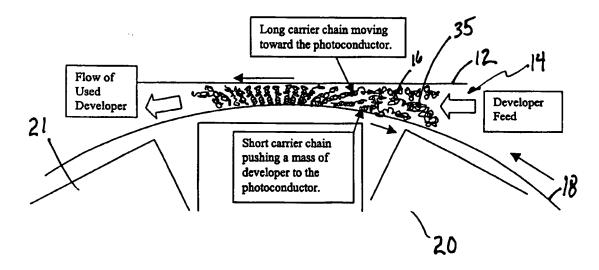


Fig. 2

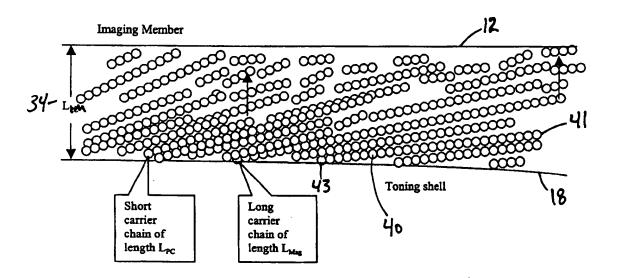
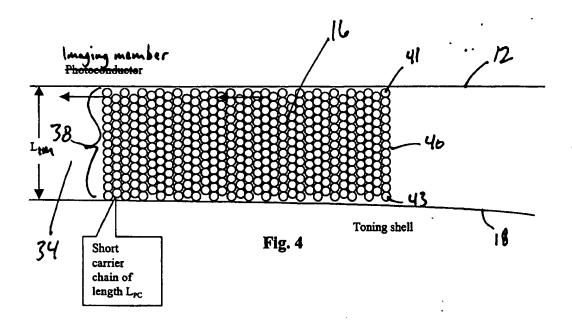


Fig. 3



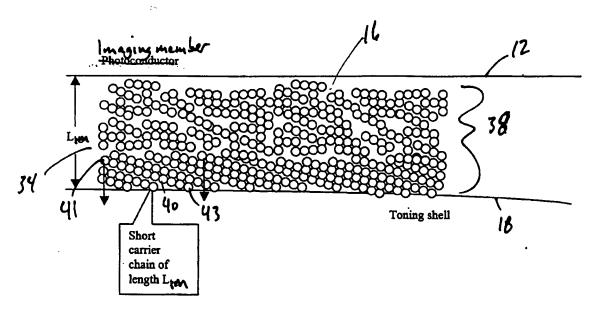


Fig. 5

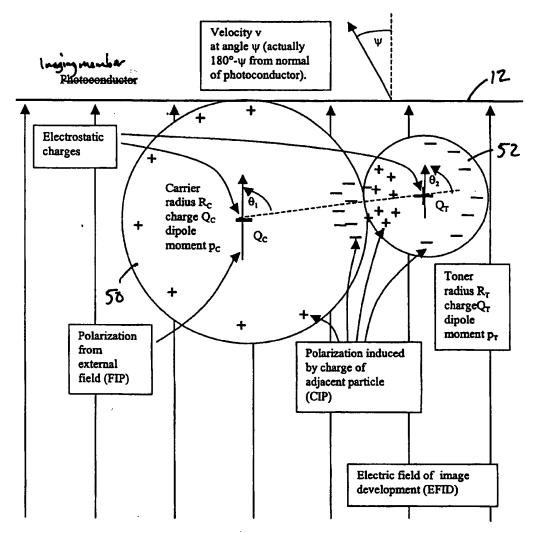
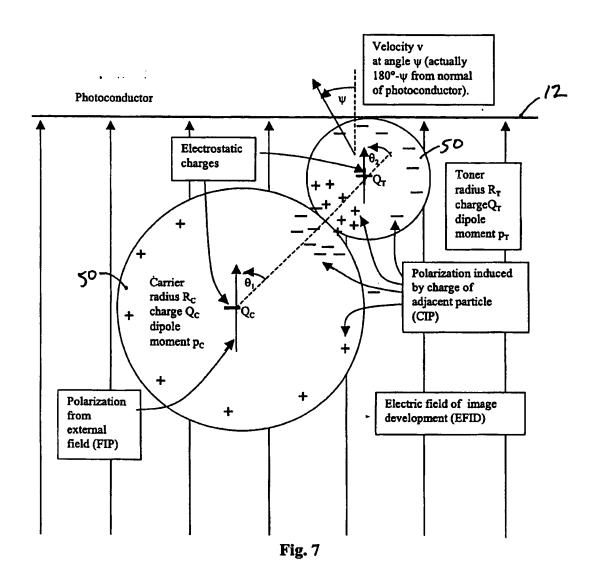


Fig. 6



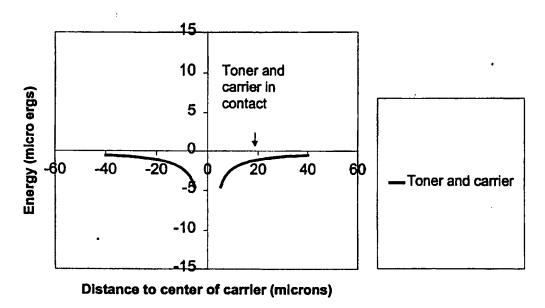
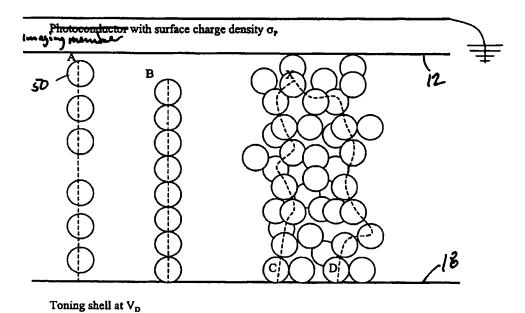


Fig. 8



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Fig. 9

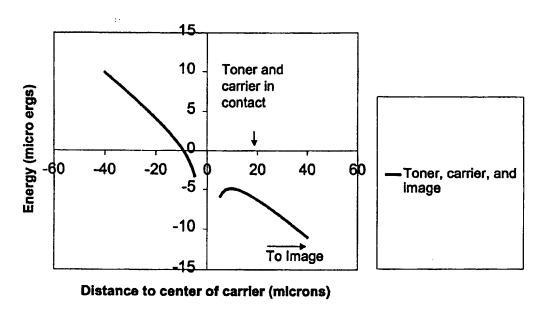


Fig. 10 t=0Contact force < than force at t>>0.

Substrate t>>0Contact force \propto to cross sectional area of spherical particle.

Fig. 11

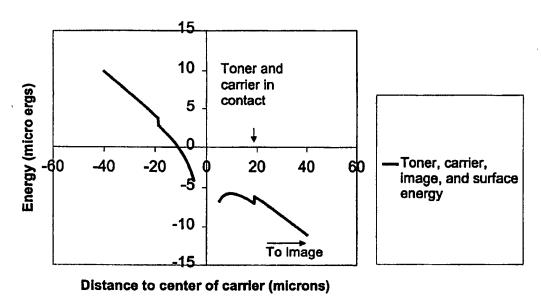


Fig. 12

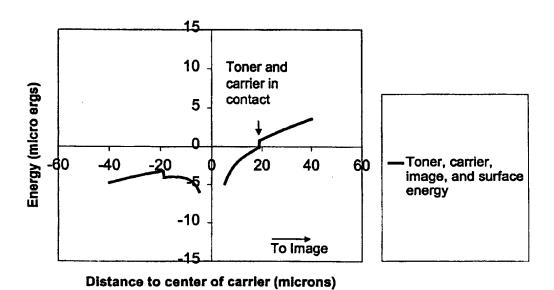


Fig. 13

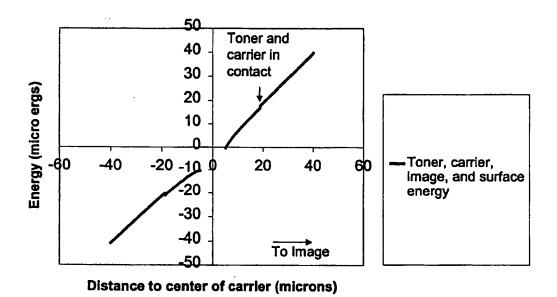
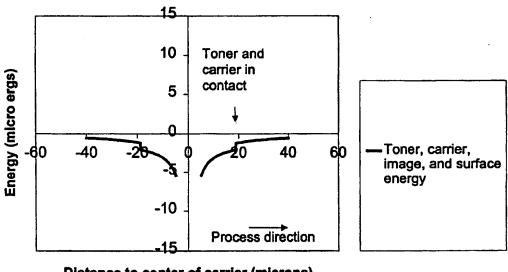


Fig. 14



Distance to center of carrier (microns)

Fig. 15

FIG. 16